

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Claim 1. (Original) A nucleic acid molecule comprising a sequence of nucleotides that encodes an HPV31 L1 protein as set forth in SEQ ID NO:4, the nucleic acid sequence being codon-optimized for high level expression in a yeast cell.

Claim 2. (Original) A vector comprising the nucleic acid molecule of claim 1.

Claim 3. (Original) A host cell comprising the vector of claim 3.

Claim 4. (Original) The host cell of claim 3, wherein the host cell is selected from the group consisting of: *Saccharomyces cerevisiae*, *Hansenula polymorpha*, *Pichia pastoris*, *Kluyveromyces fragilis*, *Kluyveromyces lactis*, and *Schizosaccharomyces pombe*.

Claim 5. (Original) The host cell of claim 4, wherein the host cell is *Saccharomyces cerevisiae*.

Claim 6. (Previously Considered) The nucleic acid molecule of claim 1, wherein the sequence of nucleotides comprises a sequence of nucleotides as set forth in SEQ ID NO:2 or SEQ ID NO:3.

Claim 7. (Original) A vector comprising the nucleic acid molecule of claim 6.

Claim 8. (Original) A host cell comprising the vector of claim 7.

Claims 9-43. (Canceled)